

## ROUGHNESS TESTER- GENERAL SPECIFICATIONS COMPLIANCE MATRIX

SL No	Specification	Specification Value	Compliance
1.	General requirement 1	English as operational language.	
2.	General requirement 2	Printout facility of results.	
3.	General requirement 3	All accessories including calibration standards, Measuring gauges, Different styli, Computer with colour monitor, Instruments desk & computer table and operation & maintenance manual shall be supplied. Various necessary calibration standards required for the measurement of surface finish and contour shall be supplied.	
4.	General requirement 4	Machine shall be installed and calibrated to the stated accuracy at LPSC VALIYAMALA and extensive 5 days training to be imparted to LPSC VALIYAMALA employees, Training shall include a) Operation of the system, b) Calibration, maintenance and troubleshooting. c) Usage of software in all aspects of measurement and data analysis, part programming, Post processing.	
5.	General requirement 5	Warranty shall be provided for minimum two years from the date of Installation & commissioning.	
6.	General requirement 6	Power supply; 220-230V, 50HZ, single phase.	

<b>7.</b>	General requirement 7	Specifications details for Air Supply, UPS and Air Drier shall be provided.	
<b>8.</b>	General requirement 8	Supplier shall have prior experience of supply of form and surface roughness equipments for precision components inspection.	
<b>9.</b>	General requirement 9	All necessary calibration standards required for the calibration shall be brought by the party at the time of installation.	
<b>10.</b>	General requirement 10	Various necessary calibration standards required for the measurement of surface finish and contour shall be quoted.	
<b>11.</b>	General requirement 11	All software updates during the warranty period shall be supplied, installed and trained to the user on real time basis at free of cost.	
<b>12.</b>	General requirement 12	The quote shall be in two parts. Part '1' is technical cum commercial with price figures masked and part '2' is technical cum commercial with price.	
<b>13.</b>	General requirement 13	All optional accessories shall be quoted separately with individual cost and final selection shall be done by LPSC during Part '1' evaluation before price bid opening depending upon the requirements.	
<b>14.</b>	General requirement 14	Supplier shall offer automated CNC measurement solution for aerospace components with requisite fixtures, accessories, styli etc at installation site.	
<b>15.</b>	General requirement 15	Supplier shall offer automated solution for automated inspection of aerospace components.	

<b>16.</b>	General requirement 16	Supplier to offer requisite fixtures, accessories, styli required for automated CNC measurement of aerospace components with requisite programming system to be done at installation site.	
<b>17.</b>	General requirement 17	Supplier shall have experience in programming aerospace components inspection.	
<b>18.</b>	General requirement 18	Party shall provide compliance matrix as per enclosed format. Wherever parameter is specified with numerals, the reply shall be in numerals and other statements like “Yes complied or agreed” alone are not acceptable and such offers shall not be considered.	
<b>19.</b>	General requirement 19	Offer would be considered only if, original catalogue (in English) embedded with all specifications of the quoted model for equipment, accessories, styli etc. are enclosed.	
<b>20.</b>	General requirement 20	After installation and commissioning of machine at LPSC VALIYAMALA. Party has to provide a Calibration certificate traceable to National and international standards.	
<b>21.</b>	General requirement 21	Two sets each of user manual and service manual (operation and maintenance manual) (for both mechanical and electronic hardware) in English language shall also be provided in soft and hard copy.	

22.	Special conditions 1	Pre-Qualification Criteria for bidders:	
23.	Special conditions 2	The following details/document shall be provided with quotation:The bidder shall be an Original Equipment Manufacturer(OEM), or authorized dealer of OEM. Authorized dealer(s) shall provide an authorization letter from OEM. The Original Equipment Manufacturer (OEM) shall have a minimum of Three years of continuous experience in the field of design, manufacturing and supply of contour and surface finish measuring machine. List of contour and surface finish measuring machines supplied, installed and commissioned till date (with details of major specification, model and clientele indicating name of company, contact person, phone no., e-mail address in the past 3 years) shall be provided.	
24.	Special conditions 3	OEM(s) shall have supplied and commissioned at least one contour and surface finish measuring machine with tracing length minimum 200mm and resolution in Z direction equal to or better than 0.8nm in the past three years to any industrial organization (preferably to ISRO, Aerospace or automobile Industries, etc.) and such machine shall be presently working satisfactorily. As a documentary proof, bidder shall provide copies of	

		Purchase order, installation reports, calibration certificates, Performance Certificate, customer details with name of contact person, Phone No. and e-mail id.	
<b>25.</b>	Special conditions 4	If any of the details required as per tender is not provided, the offer will be summarily rejected.	
<b>26.</b>	Special conditions 5	Delivery Period: 18 Weeks from the date of Purchase Order.	
<b>27.</b>	Special conditions 6	Pre-delivery inspection at the Supplier's site in presence of Purchaser's representative	
<b>28.</b>	Special conditions 7	In house inspection of all the required aspects shall be completed by the party and inform to Purchaser for pre delivery inspection.	
<b>29.</b>	Special conditions 8	All software features shall be demonstrated using the standard artefacts, as per the standards at purchaser's site.	
<b>30.</b>	Special conditions 9	Machine acceptance criteria: All the accuracies- as mentioned above are to be proven as per relevant standards at LPSC VALIYAMALA after installation of machine.	
<b>31.</b>	Special conditions 10	Party shall also quote separately Non-comprehensive AMC for a period of 3 (Three) years after the warranty. The scope shall include 4 (Four) preventive maintenance visits per year and to attend any number of breakdown calls.	

<b>32.</b>	Special conditions 11	During the AMC period annually first preventive maintenance visit. shall be combined with calibration.	
<b>33.</b>	Special conditions 12	Payment for the AMC shall be on pro-rata basis and shall be paid after satisfactory completion of each preventive maintenance and calibration visit.	
<b>34.</b>	Special conditions 13	The AMC shall be optional and LPSC VALIYAMALA reserves the right to not to choose the AMC along with procurement of the machine.	
<b>35.</b>	Special conditions 14	Technical service support shall be made available for at least 10 years after expiry of warranty period	
<b>36.</b>	Special conditions 15	Factory trained service engineers/ application engineers shall be based in India to support the machine offered.	
<b>37.</b>	Special conditions 16	List of essential spares, likely to be required during the Non-Comprehensive AMC and its cost, valid during the entire period of AMC, after the expiry of warranty shall be submitted along with the quotation.	
<b>38.</b>	Special conditions 17	Charges towards NC-AMC for a period of 3 years after expiry of warranty shall also be taken into account, to arrive the L1 offer.	